# 04 EXPLOITING SOFTWARE DIVERSIFICATION FOR WEBASSEMBLY

## 4.1 Offensive Diversification: Malware evasion

**TODO** The malware evasion paper

### 4.1.2 Objective

Test and evade the resilience of WebAssembly malware detectors mentioned in Subsection 2.1.6.

### 4.1.3 Approach

**TODO** We use wasm-mutate **TODO** How do we use it? **TODO** Controlled and uncontrolled diversification.

### 4.1.4 Results

## 4.2 Defensive Diversification: Speculative Side-channel protection

**TODO** Go around the last paper

### 4.2.2 Threat model

- Spectre timing cache attacks.
  - Rockiki paper on portable side channel in browsers.

### 4.2.3 Approach

- Use of wasm-mutate

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- 4.2.4 Results

  - Diminshing of BER